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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,206	01/26/2004	Minoru Nakamura	018775-891	6431
21839 73	7590 04/25/2006		EXAMINER	
	I INGERSOLL PC	RODEE, CHRI	RODEE, CHRISTOPHER D	
(INCLUDING BURNS, DOANE, SWECKER & MATHIS) POST OFFICE BOX 1404			ART UNIT	PAPER NUMBER
ALEXANDRIA	ALEXANDRIA, VA 22313-1404			
			DATE MAILED: 04/25/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/763,206	NAKAMURA ET AL.
		Examiner	Art Unit
	· · ·	Christopher RoDee	1756
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	e correspondence address
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.11 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDO	ON.  timely filed  om the mailing date of this communication.  NED (35 U.S.C. § 133).
Status			
2a)□	Responsive to communication(s) filed on 10 M This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters,	
Dispositi	on of Claims		
5)⊠ 6)⊠ 7)⊠ 8)□ <b>Applicati</b> 9)□ 10)□	Claim(s) 1-6,8-10,13-17 and 23-36 is/are pend 4a) Of the above claim(s) is/are withdraw Claim(s) 1-6,8-10,13-17,23-25 and 27-29 is/are Claim(s) 30-36 is/are rejected.  Claim(s) 26 is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examine The drawing(s) filed on is/are: a) according a contract of the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The Oath Oath Oath Oath Oath Oath Oath Oath	wn from consideration. e allowed.  r election requirement.  er. epted or b) objected to by the drawing(s) be held in abeyance. Sion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		•
12) a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document:  2. Certified copies of the priority document:  3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applic nty documents have been rece u (PCT Rule 17.2(a)).	ation No ived in this National Stage
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	

### **DETAILED ACTION**

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### Claim Objections

Claim 9 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 9 fails to further limit claim 1 as amended because claim 1 requires the first and second polyesters to have a glass transition temperature. Because the first polymer has a glass transition temperature it is not crystalline in nature. See the enclosed citation to *Polymer Science Dictionary* (p. 185). This text describes polymers with a glass transition temperature as amorphous in the third paragraph. The artisan would recognize that an amorphous polymer as non-crystalline and that it would not be composed of crystalline monomers, which would make the polymer crystalline. Because the first polyester resin in claim 1 has a Tg it cannot be formed from a crystalline monomer as specified in claim 9. Claim 9, consequently, does not further limit claim 1.

Claims 26 and 35 are objected to because of the following informalities: each of these dependent claims states that the toner comprises "the binder resin, the colorant, and the infrared absorbing agent". However, each of the independent claims from which these claims depend specifies additional components (i.e., waxes) as part of the toner. For improved clarity, the Examiner suggests that the dependent claims additionally specify the appropriate waxes from the respective independent claims. Appropriate correction is required.

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 30-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daimon et al. in US Patent Application Publication 2003/0190545 in view of Yamashita et al. in US Patent Application Publication 2003/0027066.

These references were presented in the last Office action (see pp. 6-7) and the discussion of those references is incorporated here. Upon further consideration of Diamon, the Examiner notes that Daimon discloses various releasing agents as effective in the toner of that invention. These agents include low molecular weight polyethylene, polypropylene and polybutylene, as well as montanic acid ester waxes (¶ [0286]). Diamond also teaches that combinations of the agents can be used as a mixture. Based on the disclosure in the specification on page 22, (¶ [0050]), it appears that the montanic acid ester is a synthetic ester wax as required by the instant claims. Further, low molecular weight polyethylene, polypropylene and polybutylene release agents are well known in the art to be waxes because of their low molecular weight and because of their function as release agents.

Although the reference does not identically disclose a combination of release agents as specified in the instant claims, Daimon does disclose a release agent meeting the requirements of each of a polyolefin wax and a synthetic ester wax and also discloses that mixture of these waxes are effective. Given this disclosure the artisan would have found it obvious to use a combination of these waxes while also obtaining a relationship of loss elastic modulus and storage elastic modulus as specified in Toner 2 because this relationship is taught as effective.

Art Unit: 1756

### Allowable Subject Matter

Claims 1-6, 8-10, 13-17, 23-25, 27-29 are allowed.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher RoDee whose telephone number is 571-272-1388. The examiner can normally be reached on most weekdays from 6:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cdr

21 April 2006

CHRISTOPHER RODEE

PRIMARY EXAMINER